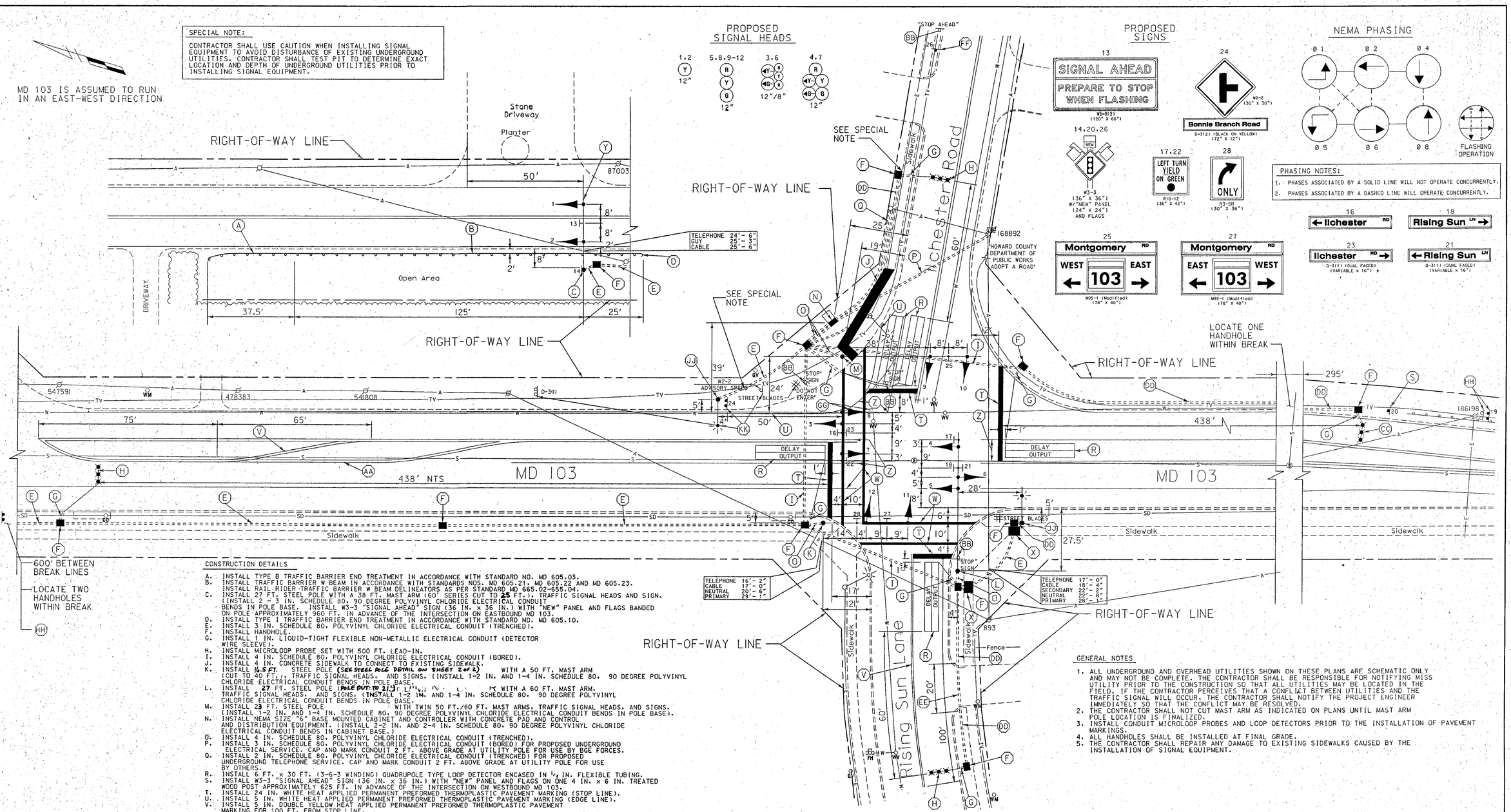
SPECIAL NOTE:

CONTRACTOR SHALL USE CAUTION WHEN INSTALLING SIGNAL EQUIPMENT TO AVOID DISTURBANCE OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL TEST PIT TO DETERMINE EXACT LOCATION AND DEPTH OF UNDERGROUND UTILITIES PRIOR TO INSTALLING SIGNAL EQUIPMENT.

MD 103 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



PROPOSED SIGNAL HEADS

PROPOSED SIGNS

NEMA PHASING

PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.

CONSTRUCTION DETAILS

A. INSTALL TYPE B TRAFFIC BARRIER END TREATMENT IN ACCORDANCE WITH STANDARD NO. MD 605.03.
B. INSTALL TRAFFIC BARRIER W BEAM IN ACCORDANCE WITH STANDARDS NOS. MD 605.21, MD 605.22 AND MD 605.23.
INSTALL RAIL RIDER TRAFFIC BARRIER W BEAM DELINEATORS AS PER STANDARD MD 665.02-665.04.
C. INSTALL 27 FT. STEEL POLE WITH A 38 FT. MAST ARM (60' SERIES CUT TO **25** FT.). TRAFFIC SIGNAL HEADS AND SIGN. (INSTALL 2 - 3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL AND FLAGS BANDED ON POLE APPROXIMATELY 960 FT. IN ADVANCE OF THE INTERSECTION ON EASTBOUND MD 103.
D. INSTALL TYPE I TRAFFIC BARRIER END TREATMENT IN ACCORDANCE WITH STANDARD NO. MD 605.10.
E. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
F. INSTALL HANDHOLE.
G. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT (DETECTOR WIRE SLEEVE).
H. INSTALL MICROLOOP PROBE SET WITH 500 FT. LEAD-IN.
I. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
J. INSTALL 4 IN. CONCRETE SIDEWALK TO CONNECT TO EXISTING SIDEWALK.
K. INSTALL **45 FT.** STEEL POLE **(SEE STEEL POLE DETAIL on SHEET 2 of 2)** WITH A 50 FT. MAST ARM (CUT TO 40 FT.), TRAFFIC SIGNAL HEADS, AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE.
L. INSTALL **27** FT. STEEL POLE **(POLE CUT TO 21)** WITH A 60 FT. MAST ARM, TRAFFIC SIGNAL HEADS, AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE.
M. INSTALL **23** FT. STEEL POLE WITH TWIN 50 FT./60 FT. MAST ARMS, TRAFFIC SIGNAL HEADS, AND SIGNS. (INSTALL 1-2 IN. AND 1-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN POLE BASE).
N. INSTALL NEMA SIZE 6" BASE MOUNTED CABINET AND CONTROLLER WITH CONCRETE PAD AND CONTROL AND DISTRIBUTION EQUIPMENT. (INSTALL 2-2 IN. AND 2-4 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BENDS IN CABINET BASE.)
O. INSTALL 4 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
P. INSTALL 3 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED) FOR PROPOSED UNDERGROUND ELECTRICAL SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY BGE FORCES.
Q. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT 2 FT. ABOVE GRADE AT UTILITY POLE FOR USE BY OTHERS.
R. INSTALL 6 FT. x 30 FT. (3-6-3 WINDING) QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN 1/4 IN. FLEXIBLE TUBING.
S. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 625 FT. IN ADVANCE OF THE INTERSECTION ON WESTBOUND MD 103.
T. INSTALL 24 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
U. INSTALL 6 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (EDGE LINE).
V. INSTALL 5 IN. DOUBLE YELLOW HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING FOR 100 FT. FROM STOP LINE.
W. INSTALL 12 IN. WHITE HEAT APPLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK).
X. REMOVE EXISTING SIDEWALK. INSTALL CONDUIT, AND REPLACE 4 IN. CONCRETE SIDEWALK.
Y. CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURES.
Z. REMOVE EXISTING PAVEMENT MARKINGS.
AA. REMOVE EXISTING DOUBLE YELLOW PAVEMENT MARKINGS.
BB. REMOVE EXISTING SIGN AND SUPPORT.
CC. INSTALL MICROLOOP PROBE SET WITH 1000 FT. LEAD-IN.
DD. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (TRENCHED).
EE. INSTALL 2 IN. SCHEDULE 80, POLYVINYL CHLORIDE ELECTRICAL CONDUIT (BORED).
FF. INSTALL W3-3 "SIGNAL AHEAD" SIGN (36 IN. x 36 IN.) WITH "NEW" PANEL AND FLAGS ON ONE 4 IN. x 6 IN. TREATED WOOD POST APPROXIMATELY 325 FT. IN ADVANCE OF THE INTERSECTION ON SOUTHBOUND ILCHESTER ROAD.
GG. REMOVE ALL TUBULAR MARKERS WITHIN PAINTED GORE AREA.
HH. REMOVE EXISTING D3-1 SIGN AND SUPPORT AND INSTALL D3-3 SIGN ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS APPROXIMATELY 450 FT. IN ADVANCE OF THE INTERSECTION ON MD 103.
JJ. INSTALL 30 FT. LIGHT STRUCTURE AND 10 FT. BRACKET ARM WITH 250 WATT HPS LUMINAIRE. (INSTALL 1-3 IN. SCHEDULE 80, 90 DEGREE POLYVINYL CHLORIDE ELECTRICAL CONDUIT BEND IN POLE BASE.)
KK. REMOVE EXISTING D3-1 AND W2-2 SIGN AND SUPPORT, AND INSTALL D-3I2)/W2-2 SIGNS ON TWO 4 IN. x 6 IN. TREATED WOOD POSTS.

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. THE CONTRACTOR SHALL NOT CUT MAST ARM AS INDICATED ON PLANS UNTIL MAST ARM POLE LOCATION IS FINALIZED.
3. INSTALL CONDUIT MICROLOOP PROBES AND LOOP DETECTORS PRIOR TO THE INSTALLATION OF PAVEMENT MARKINGS.
4. ALL HANDHOLES SHALL BE INSTALLED AT FINAL GRADE.
5. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING SIDEWALKS CAUSED BY THE INSTALLATION OF SIGNAL EQUIPMENT.

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	SS
STORM DRAIN	SD
WATER	W
CABLE TV	TV

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CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

Dennis L. Williams 1/16/02
for DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety

TRAFFIC ENGINEERING DESIGN DIVISION

MD 103 @ Ilchester Rd/Rising Sun Lane

TRAFFIC SIGNALIZATION PLAN

DRAWN BY:	B. MARTINE	F.A.P. NO.	HO182451	TS NO. 4155	SHEET NO. 1 OF 2
CHECKED BY:	N. LEARY	S.H.A. NO.			
SCALE:	1" = 20'	COUNTY:	HOWARD	T.I.M.S. NO. E840	
DATE:	1/9/02	LOG MILE:			

13010304.64

$DGNNAME$